April 1, 2019 Reference No. 038443

Ms. Tamara McPeek
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Dear Ms. McPeek:

Re: MW-228 Well Decommissioning Summary
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)

This letter provides a summary and documentation of the well decommissioning for MW-228, in accordance with GHD's Well Location and Decommissioning Work Plan (Attachment 1 to GHD letter dated June 22, 2018 regarding Notice of Violation of OAC 3745-9-03[B] and OAC 3745-9-03[C]). GHD has prepared this letter on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) of the Site, Docket No. V-W-16-C-011 (Respondents).

MW-228 was located on Valley Asphalt property at 1901 Dryden Road, Moraine, Ohio. Well construction details are provided in the stratigraphy log in Attachment 1, as well as in the Water Well Sealing Report #323035 in Attachment 2. The well was damaged as a result of the business operations at this property, i.e., stockpile of asphalt materials. Decommissioning of MW-228 was proposed to avoid possible future interference related to Valley Asphalt operations.

After removal of the reclaimed asphalt stockpile by Valley Asphalt, the well was located using field survey equipment, a metal detector, and an excavating machine. Decommissioning of MW-228 was completed by Cascade Drilling on February 21, 2019, and was overseen by a GHD field technician. The well was over drilled and the borehole grouted to the surface. Sealing procedures and materials used are detailed in the Water Well Sealing Report, provided in Attachment 2. In accordance with Ohio Revised Code 1521.05(C), on March 25, 2019, Cascade Drilling electronically filed the original well sealing report (Form #322955) with Ohio Department of Natural Resources (ODNR) Division of Geological Survey; Cascade Drilling electronically filed a corrected well sealing report (Form 323035) on March 21, 2019.

GHD
455 Phillip Street Waterloo Ontario N2L 3X2 Canada
T 519 884 0510 **F** 519 884 0525 **W** www.ghd.com

In addition, on September 6, 2018, MW-223B on Dayton Power and Light (DP&L) property was repaired by removing the overlying asphalt pavement and installing a new flush-mount cover in accordance with GHD's Well Location and Decommissioning Work Plan.

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

Julian Hayward

JH/kf/3

Encl.

cc: (all by pdf) Leslie Patterson, USEPA
Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Andrew Dorn, ITW
Brett Fishwild, Jacobs
Valerie Chan, GHD

Attachment 1

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-70
CLIENT: PRP Group
LOCATION: Moraine, Ohio

HOLE DESIGNATION: MW-228
DATE COMPLETED: 26 March 2010
DRILLING METHOD: SONIC
FIELD PERSONNEL: D. Rivers

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE Headspace PID (ppm)
	GROUND SURFACE	735.88						
	ASPHALT	735.68						
	SP/GP - SAND & GRAVEL (FILL), trace silt; compact; fine to coarse sand; fine gravel; dark brown; moist							
2								0.8
	CL - CLAY (FILL), with fine to coarse sand and fine gravel; firm; low plasticity; brown & gray; moist; trace brick debris	732.88						
4	RED BRICK DEBRIS (FILL)	731.88						
	MIX OF SAND & RED BRICK DEBRIS (FILL), compact; fine to coarse sand; poorly graded; dark gray to black sand; red & tan brick; moist	731.28						
	MIX OF SAND, FLY ASH & BRICK DEBRIS (FILL), compact; fine to coarse sand; silt size fly ash; gray to black sand and fly ash; red and tan brick; moist	730.28						
6			Bentonite Grout					
8	FLY ASH (FILL), compact; silt size; dark gray; wet; trace slag, glass and brick debris	727.88						1.7
10								
12	CL - CLAY (FILL), with silt; trace fine sand; firm; low plasticity; brown to dark gray; moist; trace fly ash	723.88						1.8
14								
	SP/GP - SAND & GRAVEL (FILL), trace silt; fine to coarse sand; fine to coarse gravel; brown; moist; trace brick and concrete debris	721.38	2" PVC Casing Bentonite Chips					
16								
	SM - SILTY SAND, trace fine to coarse gravel;	718.38						1.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443-70
CLIENT: PRP Group
LOCATION: Moraine, Ohio

HOLE DESIGNATION: MW-228
DATE COMPLETED: 26 March 2010
DRILLING METHOD: SONIC
FIELD PERSONNEL: D. Rivers

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE Headspace PID (ppm)
20	compact; fine to coarse grained; poorly graded; light brown; moist							
	SP - SAND, with fine to coarse gravel; trace silt; compact; fine to coarse grained; poorly graded; brown; moist	714.88						3.8
22								
	SW/GW - SAND & GRAVEL, trace silt; compact; fine to coarse sand; fine to coarse gravel; well graded; brown; moist to wet - wet at 23.5ft BGS	712.88	Sand Pack Well Screen					2.9
24								
26								
28								
30	END OF BOREHOLE @ 30.0ft BGS	705.88						
32								
34								

WELL DETAILS
Screened interval:
716.88 to 706.88ft
19.00 to 29.00ft BGS
Length: 10ft
Diameter: 2in
Slot Size: 10
Material: PVC
Sand Pack:
718.88 to 705.88ft
17.00 to 30.00ft BGS
Material: Sand size #5

Sand Pack:
734.88 to 722.88ft
1.00 to 13.00ft BGS
Material: Bentonite Grout

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

Attachment 2

DNR 7810.12e

WATER WELL SEALING REPORT e-FORM

323035

OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

LOCATION

County MONTGOMERY Township MORAIN Section No. _____ Lot No. _____

Owner VALLEY ASPHALT CORPORATION

Address of Well Location 1901 DRYDEN RD

City MORAINE Zip Code 45439

Well Location Description (120 Characters): GROUND ELEVATION AT MW-228: 735.88 FT. AMSL

Location of Well in either:
- State Plane: N ☐ S ☐ X _____ +/- _____ ft. Y _____ +/- _____ ft.
- OR
- Latitude/Longitude: Latitude 39.729159 Longitude -84.217502

Elevation of Well _____ +/- _____ ft. Datum Plane: ☐ NAD27 ☒ NAD83

Source of Coordinates: ☐ GPS ☐ Survey ☒ Other GLOBAL POSITIONING SYSTEM
Source of Elevation: ☐ GPS ☐ Survey ☐ Other _____

WELL IDENTIFICATION ODNR Well Log Number _____ Project Well ID MW-228

MEASURED CONSTRUCTION DETAILS

Date of measurements _____
Depth of Well 30 ft. Static Water Level _____ ft.
Borehole Depth 30 ft. Borehole Diameter 6 in.
Casing Diameter 2 in. Casing Length 10 ft. Casing Type PVC

SEALING PROCEDURE

Placement:	Sealing Material	Volume/Weight Used (Units Required)	Placement Method
From 0 ft. To 30 ft.	Bentonite slurry	60 GALLONS	Pumped w/ tremie pipe
From _____ ft. To _____ ft.			
From _____ ft. To _____ ft.			
From _____ ft. To _____ ft.			

Condition of Casing _____ Was Casing Removed? ☒ Yes or ☐ No (check one)

If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No (check one) Perforations: From _____ ft. To _____ ft.

Date Sealing Performed 2/21/2019
Comments/Reason for Sealing: DAMAGED WELL. PRIOR TO SEALING WELL WAS OVER-DRILLED AND CASING WAS REMOVED.

CONTRACTOR

Name CASCADE DRILLING LP ODH Registration # 3506
Address 1010 GREENE ST
City/State/Zip MARIETTA, OH 45750

e-Signature CHRIS BUCHANAN Filed electronically on 3/21/2019
I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.